

Table 2-7: CO₂ Emissions from Fossil Fuel Combustion in Transportation End-Use Sector (Tg CO₂ Eq.)

Fuel/Vehicle Type	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Gasoline	955.3	950.4	964.5	986.1	1,002.2	1,023.0	1,041.4	1,050.6	1,072.5	1,098.7	1,105.7	1,129.3
Automobiles	594.0	557.1	559.5	572.3	579.1	582.4	589.6	588.2	603.5	614.2	617.5	628.8
Light Trucks	297.3	324.0	342.1	356.9	365.5	381.3	394.3	406.0	414.2	431.7	435.7	445.2
Other Trucks	39.8	41.8	39.3	37.1	37.0	37.1	36.1	34.7	34.6	33.7	33.4	32.4
Buses	1.6	1.5	1.3	1.2	1.1	1.0	0.9	0.7	0.7	0.7	0.6	0.5
Motor Cycles	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.6
Boats (Recreational)	11.2	14.9	11.3	7.5	7.7	9.2	8.5	8.4	8.1	9.3	9.6	9.5
Agricultural Equipment	7.0	6.8	6.9	7.3	7.8	8.0	7.9	8.4	7.7	5.9	5.6	6.9
Construction Equipment	2.7	2.5	2.4	2.1	2.3	2.4	2.4	2.5	2.0	1.5	1.6	4.4
Distillate Fuel Oil (Diesel)	277.3	266.2	275.8	283.1	301.8	311.9	328.9	342.4	355.6	373.5	385.1	394.1
Automobiles	6.3	5.3	5.3	5.3	5.2	4.9	4.7	4.6	4.4	4.4	4.1	3.9
Light-Duty Trucks	8.9	8.7	9.7	10.6	11.2	11.6	12.2	13.1	13.4	14.4	14.6	14.8
Other Trucks	164.2	160.7	166.9	174.8	190.1	199.9	210.4	222.9	234.7	250.5	261.3	265.9
Buses	5.8	5.5	5.8	6.3	6.8	6.9	7.3	7.6	7.9	9.0	8.7	8.1
Locomotives	27.5	24.8	25.7	26.3	29.2	30.2	31.2	30.9	31.7	33.4	33.1	33.5
Ships & Boats	14.0	13.5	13.6	12.3	13.3	12.3	15.0	14.6	13.1	15.6	15.5	16.8
Agricultural Equipment	26.1	25.0	26.2	24.5	24.9	25.0	26.3	26.0	24.4	23.5	25.7	28.3
Construction Equipment	13.1	11.9	12.1	12.2	12.5	11.9	13.4	13.6	14.4	14.4	15.9	17.6
Ships (Bunkers)	11.4	10.8	10.6	10.6	8.8	9.1	8.3	9.1	11.5	8.2	6.2	5.2
Jet Fuel	220.4	213.0	211.2	213.0	221.6	219.9	229.8	232.1	235.6	242.9	251.2	240.4
Commercial Aircraft	118.2	109.4	112.2	114.9	117.3	121.4	124.9	129.4	131.4	137.3	141.0	131.6
Military Aircraft	34.8	34.5	28.2	27.6	25.0	24.1	23.1	21.0	21.5	20.6	21.0	22.8
General Aviation Aircraft	6.3	5.5	4.7	4.1	4.4	5.3	5.8	6.1	7.7	9.2	9.5	9.3
Other Aircraft ^a	14.6	17.1	19.1	18.9	26.5	17.9	23.9	19.7	19.9	17.0	21.4	17.8
Aircraft (Bunkers)	46.6	46.5	47.0	47.6	48.3	51.1	52.2	55.9	55.0	58.8	58.4	58.9
Aviation Gasoline	3.1	2.9	2.8	2.6	2.6	2.7	2.6	2.7	2.4	2.7	2.5	2.4
General Aviation Aircraft	3.1	2.9	2.8	2.6	2.6	2.7	2.6	2.7	2.4	2.7	2.5	2.4
Residual Fuel Oil	79.2	80.0	83.5	70.3	68.8	71.0	66.4	55.5	52.6	51.9	69.2	65.2
Locomotives	+	+	+	+	+	+	+	+	+	+	+	+
Ships & Boats ^b	23.4	17.5	31.2	28.7	27.9	30.2	24.6	10.6	6.2	13.7	34.6	32.0
Ships (Bunkers) ^b	55.8	62.5	52.3	41.7	40.9	40.8	41.8	44.9	46.4	38.2	34.6	33.2

Natural Gas	35.9	32.7	32.1	34.0	37.4	38.2	38.9	41.1	35.1	35.6	35.5	33.9
Automobiles	+	+	+	+	0.1	0.1	+	+	+	+	+	+
Light Trucks	+	+	+	+	+	+	+	+	+	+	+	+
Buses	+	+	+	+	+	0.1	0.1	0.2	0.2	0.3	0.4	0.4
Pipeline	35.9	32.7	32.1	33.9	37.3	38.0	38.7	40.9	34.9	35.3	35.0	33.5
LPG	1.3	1.2	1.1	1.2	2.0	1.0	0.9	0.8	1.0	0.8	0.8	0.8
Light Trucks	0.5	0.5	0.5	0.4	0.9	0.5	0.4	0.4	0.4	0.3	0.3	0.3
Other Trucks	0.8	0.7	0.7	0.7	1.1	0.5	0.5	0.4	0.6	0.5	0.5	0.5
Buses	+	+	+	+	+	+	+	+	+	+	+	+
Electricity	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.1	3.1	3.2	3.4	3.6
Buses	+	+	+	+	+	+	+	+	+	+	+	+
Locomotives & Transit Cars	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.8
Pipeline	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.5	2.5	2.7	2.8
Lubricants	11.7	10.5	10.7	10.9	11.4	11.2	10.9	11.5	12.0	12.1	12.0	12.1
Total (Including Bunkers)^c	1,587.3	1,559.9	1,584.7	1,604.2	1,651.0	1,681.9	1,722.7	1,739.9	1,769.9	1,821.5	1,865.4	1,881.8
Total (Excluding Bunkers)^c	1,473.5	1,440.0	1,474.8	1,504.4	1,553.0	1,580.9	1,620.4	1,630.0	1,657.0	1,716.2	1,766.1	1,784.4

Note: Totals may not sum due to independent rounding.

^a Including but not limited to fuel blended with heating oils and fuel used for chartered aircraft flights.

^b Fluctuations in emission estimates from the combustion of residual fuel oil are currently unexplained, but may be related to data collection problems.

^c Official estimates exclude emissions from the combustion of both aviation and marine international bunker fuels; however, estimates including international bunker fuel-related emissions are presented for informational purposes.

+ Does not exceed 0.05 Tg CO₂ Eq.